

Environmental Protection Agency

§ 94.105

or below 3700 kW with per-cylinder displacement at or above 5.0 liters and below 7.0 liters are Category 1 engines subject to 40 CFR part 1042. Similarly, beginning model year 2014, engines with maximum engine power above 3700 kW with per-cylinder displacement at or above 5.0 liters and below 7.0 liters are Category 1 engines subject to 40 CFR part 1042. For purposes of this paragraph (j), maximum engine power has the meaning given in 40 CFR 1042.901.

[64 FR 73331, Dec. 29, 1999, as amended at 67 FR 68343, Nov. 8, 2002; 68 FR 9784, Feb. 28, 2003; 68 FR 54960, Sept. 19, 2003; 69 FR 9215, Feb. 27, 2004; 70 FR 40458, July 13, 2005; 73 FR 37196, June 30, 2008; 75 FR 22981, Apr. 30, 2010]

Subpart B—Test Procedures

§ 94.101 Applicability.

Provisions of this subpart apply for testing performed by the Administrator or a manufacturer.

§ 94.102 General provisions.

(a) The test procedures specified in this part are intended to produce emission measurements that are equivalent to emission measurements that would result from emission tests performed during in-use operation using the same engine configuration installed in a vessel.

(b) Test procedures otherwise allowed by the provisions of this subpart shall not be used where such procedures are not consistent with good engineering practice and the regulatory goal specified in paragraph (a) of this section.

(c) Alternate test procedures may be used if shown to yield equivalent results, and if approved in advance by the Administrator.

§ 94.103 Test procedures for Category 1 marine engines.

(a) Gaseous and particulate emissions shall be measured using the test procedures specified in 40 CFR part 89, except as otherwise specified in this subpart.

(b) The Administrator may specify changes to the provisions of paragraph (a) of this section that are necessary to comply with the general provisions of § 94.102.

(c) Measure CH₄ as specified in 40 CFR 1042.235 starting in the 2012 model year.

[64 FR 73331, Dec. 29, 1999, as amended at 74 FR 56374, Oct. 30, 2009]

§ 94.104 Test procedures for Category 2 marine engines.

(a) Gaseous and particulate emissions shall be measured using the test procedures specified in 40 CFR part 92, except as otherwise specified in this subpart.

(b)(1) The requirements of 40 CFR part 92 related to charge air temperatures, engine speed and load, and engine air inlet restriction pressures do not apply for marine engines.

(2) For marine engine testing, charge air temperatures, engine speed and load, and engine air inlet restriction pressures shall be representative of typical in-use marine engine conditions.

(c) Conduct testing at ambient temperatures from 13 °C to 30 °C.

(d) The Administrator may specify changes to the provisions of paragraph (a) of this section that are necessary to comply with the general provisions of § 94.102.

(e) Measure CO₂ as described in 40 CFR 92.129 through the 2010 model year. Measure CO₂ as specified in 40 CFR 1042.235 starting in the 2011 model year. Measure CH₄ as specified in 40 CFR 1042.235 starting in the 2012 model year.

[64 FR 73331, Dec. 29, 1999, as amended at 67 FR 68343, Nov. 8, 2002; 74 FR 56374, Oct. 30, 2009]

§ 94.105 Duty cycles.

(a) *Overview.* For the purpose of determining compliance with the emission standards of § 94.8, except for those in § 94.8(e), engines shall be tested using the appropriate duty cycles described in this section.

(b) *General cycle.* Propulsion engines that are used with (or intended to be used with) fixed-pitch propellers, propeller-law auxiliary engines, and any other engines for which the other duty cycles of this section do not apply, shall be tested using the duty cycle described in the following Table B-1: